

# SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Jeffrey E. Russell Examiner #: 62785 Date: 9-4-2001  
 Art Unit: 1653 Phone Number 308-3975 Serial Number: 091830,741  
 Mail Box and Bldg/Room Location: Room 110 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

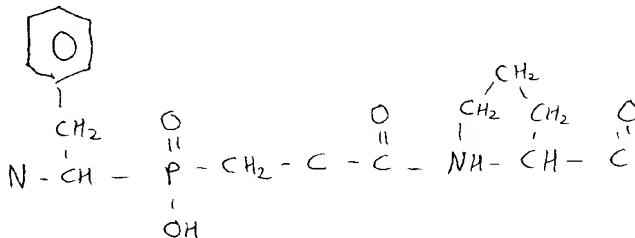
Title of Invention: Phosphate peptide analogs for the treatment of fibrotic disorders

Inventors (please provide full names): Elmar Burchardt, Michael Schauer, Walter Stacker, Thomas Lampe

Earliest Priority Filing Date: 6-21-2001

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search the following partial structure:



Keywords are fibrotic, fibrosis, cirrhosis, hepatitis, scar, nephropathy, scleroderma, colitis, aneurysm.

Thank you.  
JER

STAFF USE ONLY

Searcher

Type of Search

NA Sequence (#)

Vendors and cost where applicable

STN

If Contact  
Sheppard  
Tel: 308-4499

=&gt; fil hcaplus

FILE 'HCAPLUS' ENTERED AT 18:54:28 ON 07 SEP 2001

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1947 - 7 Sep 2001 VOL 135 ISS 12

FILE LAST UPDATED: 6 Sep 2001 (20010906/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

HCAplus now provides online access to patents and literature covered in CA from 1947 to the present. On April 22, 2001, bibliographic information and abstracts were added for over 2.2 million references published in CA from 1947 to 1966.

=&gt;

=&gt;

-&gt; d stat que 17

L1 STR

```

      2          8
      C          C
1 C      C 3      7 C      C 9
      6 C 5 C 4 19      11 N      C
      C      O      10 C O
      13 14      17      22 23
      C C P C C C
12      15 16
      N O      O
18 20      21

```

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

L3 61 SEA FILE=REGISTRY SSS FUL L1

L4 12323 SEA FILE=REGISTRY ABB=ON PLU=ON FIBROTIC? OR FIBROSIS? OR

CIRRHOSIS? OR HEPATITIS? OR SCLERODERMA? OR COLITIS? OR ANEURYSM

L5 12 SEA FILE=HCAPLUS ABB=ON PLU=ON 13  
L6 239213 SEA FILE=HCAPLUS ABB=ON PLU=ON 14 OR 7FIBRO? OR 7CIRRHOSIS?  
OR 7HEPATITIS? OR 7SCLERODERMA? OR 7COLITIS? OR 7ANEURYSM?  
L7 1 SEA FILE=HCAPLUS ABB=ON PLU=ON 15 AND 16

=> a bib abs hitra 17 1

L7 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 2000:289131 HCAPLUS

DOCUMENT NUMBER: 132:303510

TITLE: Phosphinate peptide analogs for the treatment of **fibrotic** disease

INVENTOR(S): Burchardt, Elmar-Reinhold; Schauer, Michael; Stocker, Walter

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 12 pp.

CODEN: GWXXEX

DOCUMENT TYPE: Patent

LANGUAGE: German

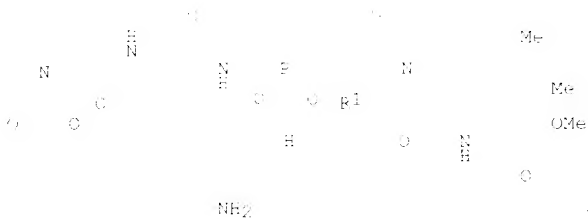
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19850072	A1	20000504	DE 1998-19850072	19981030
WO 2000027377	A2	20000518	WO 1999-EP8181	19991028
WO 2000027377	A3	20001116		
<p>W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TC, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM</p> <p>RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG</p>				
EP 1124845	A2	20010822	EP 1999-969897	19991028
<p>R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO</p>				

PRIORITY APPLN. INFO.: DE 1998-19850072 A 19981030  
WO 1999-EP8181 W 19991028

61



AB Phosphinate peptide analogs I (R1 = H, Me) are disclosed as inhibitors of procollagen C proteinase for the treatment of **fibrotic** disease, e.g. liver **fibrosis**.

17 209247-63-2 209247-63-2D, stereoisomers

209247-69-8 209247-69-8D, stereoisomers

265979-02-0 265979-02-0D, stereoisomers

265979-03-1 265979-03-1D, stereoisomers

RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(phosphinate peptide analogs for the treatment of **fibrotic** disease)

=>

=>

=> select hit rn 17 1

E1 THROUGH E4 ASSIGNED

=> fil reg

FILE 'REGISTRY' ENTERED AT 18:54:01 ON 07 SEP 2001

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2001 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 6 SEP 2001 HIGHEST RN 355113-65-4

DICTIONARY FILE UPDATES: 6 SEP 2001 HIGHEST RN 355113-65-4

TSCA INFORMATION NOW CURRENT THROUGH January 11, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT for details.

=>

=>

=> 0 nls 15

(FILE 'CAPLUS' ENTERED AT 18:54:28 ON 07 SEP 2001)  
SELECT HIT RN L7 1

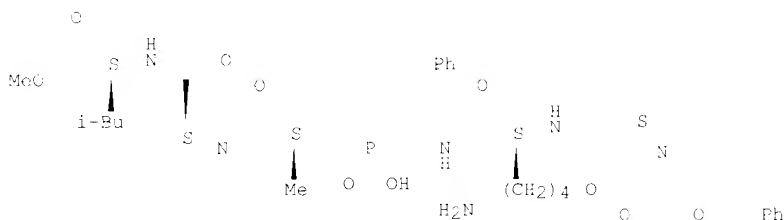
FILE 'REGISTRY' ENTERED AT 18:55:01 ON 07 SEP 2001  
4 3 EI-E4 ANT L3

=>  
=>

=> 6 100 000 10 1-4

L8 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2001 ACS  
RN 265979-03-1 REGISTRY  
CN L-Leucine, 1-[(phenylmethoxy)carbonyl]-L-prolyl-L-lysyl-(2S)-3-[(1-amino-2-phenylethyl)hydroxyphosphinyl]-2-methylpropanoyl-L-prolyl-, methyl ester (9CI) (CA INDEX NAME)  
FS PROTEIN SEQUENCE; STEREOSEARCH  
MF C43 H63 N6 O10 P  
SR CA  
LC STN Files: CA, CAPLUS, TOXLIT

Absolute stereochemistry.

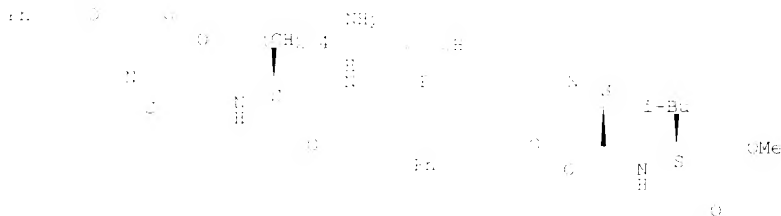


1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:303510

L8 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2001 ACS  
RN 265979-02-0 REGISTRY  
CN L-Leucine, 1-[(phenylmethoxy)carbonyl]-L-prolyl-L-lysyl-3-[(1-amino-2-phenylethyl)hydroxyphosphinyl]propanoyl-L-prolyl-, methyl ester (9CI) (CA INDEX NAME)  
FS PROTEIN SEQUENCE; STEREOSEARCH  
MF C42 H61 N6 O10 P  
SR CA  
LC STN Files: CA, CAPLUS, TOXLIT

Absolute stereochemistry.

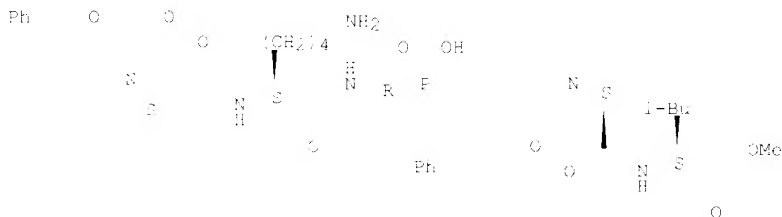


1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:303510

L8 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2001 ACS  
 RN 209247-69-8 REGISTRY  
 CN L-Leucine, 1-[(phenylmethoxy)carbonyl]-L-prolyl-L-lysyl-3-[[[(1R)-1-amino-2-phenylethyl]hydroxyphosphinyl]propanoyl-L-prolyl-, methyl ester (9CI) (CA INDEX NAME)  
 PS PROTEIN SEQUENCE; STEREOSEARCH  
 MF C42 H61 N6 O10 P  
 SF CA  
 LC STN Files: CA, CAPLUS, TOXLIT

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

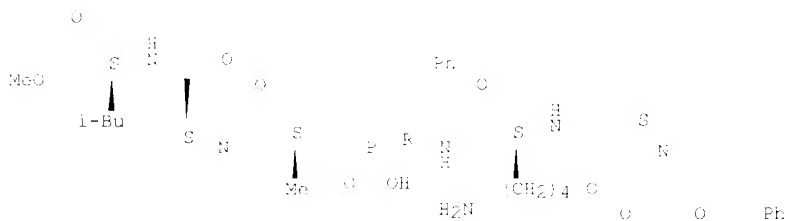
REFERENCE 1: 132:303510

REFERENCE 2: 129:76349

L8 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2001 ACS  
 RN 209247-63-2 REGISTRY  
 CN L-Leucine, 1-[(phenylmethoxy)carbonyl]-L-prolyl-L-lysyl-2S-3-[[[(1R)-1-amino-2-phenylethyl]hydroxyphosphinyl]-2-methylpropanoyl-L-prolyl-, methyl ester (9CI) (CA INDEX NAME)  
 PS PROTEIN SEQUENCE; STEREOSEARCH

MF 148 Hg: H6 C10 F  
 FR CA  
 IN CEN Files: CA, CAPLUS, TOXLIT

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:305410

REFERENCE 2: 129:78349